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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Missile Defense Agency										Date: February 2018		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0606942C I Assessments and Evaluations of Cyber Vulnerabilities							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	3.400	-	3.400	0.000	0.000	0.000	0.000	0.000	3.400
MC39: Assessment and Evaluation of Cyber Vulnerabilities	-	0.000	0.000	3.400	-	3.400	0.000	0.000	0.000	0.000	0.000	3.400
Program MDAP/MAIS Code: 362												
<p><b>Note</b></p> <p>This is a new PE in FY 2019. This is a continuation of efforts funded within the Management and Support Office of the Secretary of Defense (OSD) PE 0604942DZ Assessments &amp; Evaluation.</p> <p>Pursuant to section 1647 of Public Law 119-92, the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2016, and Congress mandated the Department of Defense (DoD) conduct cyber vulnerability evaluations of all major DoD weapons by December 31, 2019. The alternative provides \$84.1 million to the applicable Components for platform level assessments, platform mitigations, and red team enhancements. Missile Defense Agency received \$3.4 million in FY 2019 for Cyber Vulnerability Assessment and Mitigation.</p> <p><b>A. Mission Description and Budget Item Justification</b></p> <p>This program element (PE) provides funds for cyber vulnerability assessments of critical elements of the Ballistic Missile Defense System (BMD) that Missile Defense Agency (MDA) is responsible for conducting, as directed by Sec. 16470 of the Fiscal Year 2017 National Defense Authorization Act.</p> <p>Resources will be used for assessments and non-recurring engineering for mitigations for elements of the BMD system that MDA is responsible for conducting.</p>												

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	3.400	-	3.400
Total Adjustments	0.000	0.000	3.400	-	3.400
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• FY 2017 Request for Additional Appropriations	0.000	0.000	0.000	-	0.000
• Missile Defeat and Defense Enhancement	0.000	0.000	0.000	-	0.000
• Other Adjustment	0.000	0.000	3.400	-	3.400
<b><u>Change Summary Explanation</u></b>					
N/A					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Missile Defense Agency										Date: February 2018		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0606942C / Assessments and Evaluations of Cyber Vulnerabilities				Project (Number/Name) MC39 / Assessment and Evaluation of Cyber Vulnerabilities			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
MC39: Assessment and Evaluation of Cyber Vulnerabilities	-	0.000	0.000	3.400	-	3.400	0.000	0.000	0.000	0.000	0.000	3.400
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Pursuant to section 1647 of Public Law 119-92, the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2016, and Congress mandated the Department of Defense (DoD) conduct cyber vulnerability evaluations of all major DoD weapons by December 31, 2019. The alternative provides \$84.1 million to the applicable Components for platform level assessments, platform mitigations, and red team enhancements. Missile Defense Agency received \$3.4 million in FY 2019 for Cyber Vulnerability Assessment and Mitigation.

**A. Mission Description and Budget Item Justification**

N/A

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

		<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>
<b>Title:</b> Cyber Vulnerabilities Testing		0.000	0.000	3.400
<b>Articles:</b>		-	-	-
<b>Description:</b> Pursuant to section 1647 of Public Law 119-92, the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2016, and Congress mandated the Department of Defense (DoD) conduct cyber vulnerability evaluations of all major DoD weapons by December 31, 2019. The alternative provides \$84.1 million to the applicable Components for platform level assessments, platform mitigations, and red team enhancements.				
Implement cybersecurity test requirements as directed by the National Defense Authorization Act (NDAA) for Fiscal Year 2016, Pub. L. No. 114-328, *1647 (a), Director, Operational Test and Evaluation (DOT&E), and Deputy Assistant Secretary of Defense, Developmental Test and Evaluation (DT&E) to include planning, coordination, and execution of Cooperative Vulnerability and Penetration Assessments, Adversarial Assessments, Cyber Table Top Exercises, and Element Cybersecurity Experiments.				
<b>FY 2018 Plans:</b> N/A				
<b>FY 2019 Plans:</b> - Implement Cyber Vulnerability Assessment and Mitigation pursuant to Section 1647 of Public Law 119-92, the NDAA for FY 2016.				

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2017</b>	<b>FY 2018</b>
<ul style="list-style-type: none"> <li>- Plan, coordinate, and execute cyber activities in developmental and operational test environments as identified in the Integrated Master Test Plan for cyber activities.</li> <li>- Continue to incorporate cybersecurity testing requirements into BMDS flight and ground test events; to include cyber planning requirements for GTD-07b (NORTHCOM/PACOM).</li> <li>- Develop efficiencies from lessons learned documented from prior cyber vulnerability assessments.</li> </ul>			
<b>FY 2018 to FY 2019 Increase/Decrease Statement:</b> N/A			
<b>Accomplishments/Planned Programs Subtotals</b>		0.000	0.000
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b> N/A			
<b>E. Performance Metrics</b> N/A			